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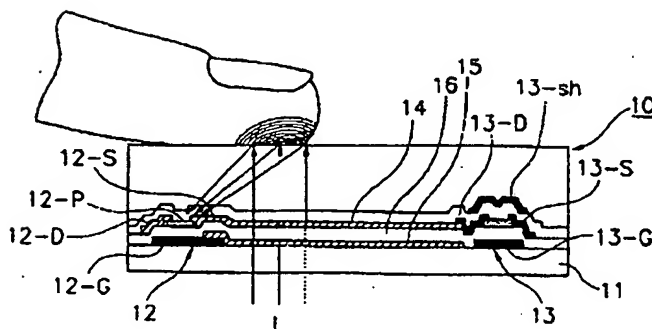
METHOD FOR EMBODYING TOUCH PAD USING FINGERPRINT INPUT UNIT AND TOUCH PAD DEVICE PERFORMING FINGERPRINT INPUT FUNCTION

Representative drawing

(57) Abstract:

PURPOSE: A method for embodying a touch pad using a fingerprint input unit and a touch pad device performing a fingerprint input function is provided to embody a touch pad by checking a position of the fingers and sensing a click and including a function performing an image scan of a fingerprint using the currently used TFT(thin film transistor) fingerprint inputting device structure.

CONSTITUTION: A TFT fingerprint input device(10) comprises a sensor TFT(12) and a switching TFT(13). A back light is located below the TFT fingerprint input device(10) and penetrates the TFT fingerprint input device(10) and irradiates a



light toward the upper direction. A gate controlling unit is applied to a gate terminal (13-G) of the switching TFT(13) in the TFT fingerprint input device(10) and generates a gate signal controlling a switching timing. If a fingerprint image sensed by the sensor TFT(12) is outputted by the switching TFT(13), a signal output unit amplifies and multiplexes the signals and outputs the signals as one single image signal. A back light controlling unit controls the quantity of light being radiated at the back light and controls on-off thereof. A mode control unit performs a fingerprint recognition mode and a touch pad mode by controlling the gate controlling unit and the back light controlling unit.

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